



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590



SR-6J

March 31, 2011

REPLY TO THE ATTENTION OF

Mr. Donald M. Samson
Trustee, Estate of Chemetco
226 W. Main Street, Suite 102
Belleville, Illinois 62220

Re: Water and soil sampling at Chemetco Superfund Site

Dear Mr. Samson:

As you know, the United States Environmental Protection Agency (EPA) took soil and water samples from the Chemetco site on January 12, 2011. For each of six soil sample locations, soil down to three inches from five spots was combined. These composite soil samples were analyzed for total metals. A deep-well water sample was taken from the tap in the administration building and analyzed for total metals and organic compounds. EPA collected three other groundwater samples and three surface water samples. All groundwater samples were analyzed for total metals and organic compounds; surface water samples were analyzed for total metals. Enclosed are your results. Figure 1 shows sample locations at the site. (When reviewing Figure 1, please note that CW-1 and GW-1 were not collected because of complications in the field.) Table 1 summarizes the results. Table 2 compares EPA's results for storm water Outfall 005 with the Estate's previous results.

For soil, at least half of the samples did not exceed preliminary screening levels (draft cleanup goals) recommended by EPA for most metals. A table of these screening levels is enclosed for your information. Arsenic was measured at levels above the preliminary screening levels in all six soil samples. Arsenic was measured around the site at 5 to 36.5 milligrams per kilogram (mg/kg). Based on information from the United States Geologic Survey¹, normal background levels of arsenic in the Hartford area are expected to be 6-9 mg/kg. The background (reference) soil sample collected for this project had 5.6 mg/kg of arsenic. Globally, background arsenic in soil can range from 1-40 mg/kg². The EPA's removal action level for arsenic is 180 mg/kg.

For another metal, lead, one of the soil samples taken from the farm fields exceeded the residential-use screening level but not the industrial-use screening level. Three of the other soil

¹ Smith, D.B. and Goldhaber, M.B. (March 2003). Geochemical Landscapes of the United States. *USGS Mineral News*, 2(1). Retrieved from <http://minerals.usgs.gov/news/newsletter/v2n1/2geochem.html>

² Gomez-Camirero, A. et al. (2001). Environmental Health Criteria 224 Arsenic and Arsenic Compounds. *United Nations Environment Programme, the International Labour Organization, and the World Health Organization*. Retrieved from <http://www.inchem.org/documents/ehc/ehc/ehc224.htm>



samples exceeded the preliminary industrial screening levels by a factor of twofold to tenfold. The EPA's removal action level for lead is 800 mg/kg.

Regarding the three surface water samples, the storm water basin and Outfall 005 had levels of antimony, arsenic, and lead that exceeded the National Primary Drinking Water Standards (NPDWS). I have enclosed a table of these standards for your information. These are preliminary screening levels. For groundwater samples, the water from the facility tap showed no organic contaminants and all inorganic elements were below NPDWS. The other three groundwater samples all exceeded the NPDWS for arsenic and lead. Other exceedances in the groundwater samples are summarized in Table 1.

At this time, due to existing controls on exposure in place and practiced at the site there is no cause for immediate concern. But, we will collect and evaluate more sample data during the remedial investigation. This will include a complete risk assessment for human health and ecological risks. Also, all response actions authorized by the Superfund Law are being considered to address contamination at the Chemetco site.

Again, the purpose of this sampling was to check for immediate threats in the areas closest to the Chemetco Superfund site, update data collected by Illinois Environmental Protection Agency, begin scoping the larger remedial investigation planned for the site, and to aid our search for potentially responsible parties for the site.

Thank you for accommodating this work. If you have any questions regarding the work or the results, please contact me at (312) 886-8961 or kerr.michelle@epa.gov.

Sincerely,



Michelle Kerr
Remedial Project Manager
Superfund Division

cc via email: Jorge Garcia, Estate of Chemetco
Erin Rednour, IEPA
Chris Cahnovsky, IEPA
Elliott Stegin, Paradigm Minerals

Enclosures: Figure 1
Tables 1-2
Screening Levels
Sample Results





Figure 1. Facility Sample Locations.



Table 1. Result Summary for Estate of Chemetco

Sample Description	ID	Result Summary	
		Inorganic Elements	Organic Chemicals
storm water basin	CW-3	Sb, As, Pb exceed NPDWS inorganic	Not tested
storm water outfall	CW-4	Sb, As, Cd, Pb exceed NPDWS inorganic, oil & grease exceed IL WQS	Not tested
Long Lake south of site	CW-5	below NPDWS inorganic	Not tested
groundwater non-potable, facility tap	CW-2	below NPDWS inorganic	ND organic
groundwater up-gradient	GW-1	As, Pb exceed NPDWS inorganic	ND organic
groundwater central site	GW-2	As, Pb, Se exceed NPDWS inorganic	ND organic
groundwater central site--field duplicate	GW-2-FD	As, Pb, Se exceed NPDWS inorganic	ND organic
groundwater central site	GW-3	As, Be, Cd, Cr, Cu, Pb, Se exceed NPDWS inorganic	TCE = MCL organic
soil north of site	CS-5	As exceeds RSL (industrial)	Not tested
soil east of site	CS-6	As, Pb exceed RSL (Pb residential only)	Not tested
soil east of site--field duplicate	CS-6-FD	As, Pb, exceed RSL (Pb residential only)	Not tested
soil south of site	CS-7	As, Pb exceed RSL (industrial)	Not tested
soil southeast of site	CS-8	As, Pb exceed RSL (industrial)	Not tested
soil center of site	CS-9	As, Pb exceed RSL (industrial)	Not tested
soil background	CS-10	As, V exceeds RSL (residential)	Not tested
IL WQS = Illinois Water Quality Standards ND = Not Detected		NPDWS = National Primary Drinking Water Standards MCL = Maximum Contaminant Limit	RSL = Regional Screening Levels TCE = Trichloroethylene



Table 2. NPDES Outfall 005 Result Analysis for Estate of Chemetco

Parameter	Estate of Chemetco January 2010 (mg/L)	Estate of Chemetco January 2011 (mg/L)	Estate of Chemetco 2010 Average (mg/L)	US EPA CW 4 on 1/12/11 (mg/L)	35 IAC 304 Effluent Water Quality Stds (mg/L)
BOD, 5-Day ¹	<5	<5	5.25	4.7	30
Oxygen Demand, Chemical	<50	<50	66.42	41	50
Dissolved Oxygen	--	--	--	7.92	--
pH	8.91	2.61	8.23	8.4	40703.0
Solids, Total Suspended	6	<6	21.33	20	15
Antimony	--	--	--	0.0103	--
Arsenic, Total	<0.0250	<0.0250	0.0276	0.0147	0.25
Barium, Total	0.0766	0.0702	0.1379	0.0996	2.00
Beryllium	--	--	--	0.00024	--
Cadmium, Total	0.0035	0.0027	0.0036	0.0054	0.15
Chromium, Total	<0.0100	<0.0100	0.0100	ND	1.00
Cobalt	--	--	--	0.00082	--
Copper, Total	0.0412	0.0207	0.0449	0.0572	0.50
Cyanide	--	--	--	0.01	0.10
Iron, Total	0.1430	0.0578	0.1860	--	2.00
Lead, Total	<0.0400	<0.0400	0.0473	0.105	0.20
Manganese, Total	0.0523	0.0516	0.0674	0.184	1.00
Mercury	--	--	--	0.0002	0.0005
Nickel, Total	0.0885	0.0187	0.0425	0.0348	1.00
Selenium, Total	<0.0500	<0.0500	0.0500	0.0164	None
Silver, Total	<0.0100	<0.0100	0.0100	ND	0.10
Thallium	--	--	--	ND	--
Vanadium	--	--	--	0.0026	--
Zinc, Total	0.1350	0.0839	0.1256	0.386	1.00
Oil and Grease	<5	<5	5.67	127	15
Nitrogen, Ammonia, Total	<0.10	0.140	0.13	0.456	None
Avg Flow (MGD)	0.002075	0.001440	0.005167	--	--
Avg flow (GPM)	1.4	1.00	3.59	1.2	--

GPM = Gallons per minute MGD = million gallons per day
 ND = Not Detected

¹EPA used EPA 405.1 method vs. the Standard Methods 18th ed. 5210B method Teklab, Inc. uses for the Estate



Preliminary Screening Levels--Soil Inorganic

Chemical	Screening Level (mg/kg)	
Aluminum	988000	
Antimony (metallic)	409	
Arsenic, Inorganic	1.59	
Barium	191000	
Beryllium and compounds	2010	
Cadmium (Diet)	798	
Calcium	--	
Chromium(III), Insoluble Salts	1530000	
Cobalt	304	
Copper	40900	
Cyanide (CN-)	20400	
Iron	715000	
Lead and Compounds	800	Residential = 400 mg/kg
Magnesium	--	
Mercury (elemental)	33.8	
Nickel Soluble Salts	19700	
Potassium	--	
Selenium	5110	
Silver	5110	
Sodium	--	
Thallium (Soluble Salts)	--	
Vanadium, Metallic	71.5	
Zinc (Metallic)	307000	

US EPA Regional Screening Levels, November 2010, for Industrial scenario
 Available: http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/index.htm

Preliminary Screening Levels--Water Organic, continued

Chemical	MCL/TT_V UNITS
m,p-Xylene	10000 ug/L
Methyl acetate	-- ug/L
Methyl tert-butyl ether	-- ug/L
Methylcyclohexane	-- ug/L
Methylene chloride	5 ug/L
o-Xylene	10000 ug/L
Styrene	100 ug/L
Tetrachloroethene	5 ug/L
Toluene	1000 ug/L
trans-1,2-Dichloroethene	100 ug/L
trans-1,3-Dichloropropene	-- ug/L
Trichloroethene	5 ug/L
Trichlorofluoromethane	-- ug/L
Vinyl chloride	2 ug/L

US EPA National Primary Drinking Water Standards, Maximum Contaminant Limits
(or Treatment Techniques), May 2009

Preliminary Screening Levels--Water Organic

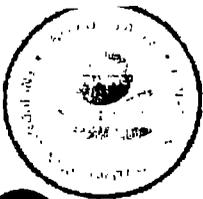
Chemical MCL/TT_V UNITS

1,1,1-Trichloroethane		200 ug/L
1,1,2,2-Tetrachloroethane	--	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	--	ug/L
1,1,2-Trichloroethane		5 ug/L
1,1-Dichloroethane		5 ug/L
1,1-Dichloroethene		7 ug/L
1,2,3-Trichlorobenzene	--	ug/L
1,2,4-Trichlorobenzene		70 ug/L
1,2-Dibromo-3-chloropropane		0.2 ug/L
1,2-Dibromoethane	--	ug/L
1,2-Dichlorobenzene		600 ug/L
1,2-Dichloroethane		5 ug/L
1,2-Dichloropropane		5 ug/L
1,3-Dichlorobenzene	--	ug/L
1,4-Dichlorobenzene		75 ug/L
1,4-Dioxane	--	ug/L
2-Butanone	--	ug/L
2-Hexanone	--	ug/L
4-Methyl-2-Pentanone	--	ug/L
Acetone	--	ug/L
Benzene		5 ug/L
Bromochloromethane	--	ug/L
Bromodichloromethane	--	ug/L
Bromoform	--	ug/L
Bromomethane	--	ug/L
Carbon disulfide	--	ug/L
Carbon tetrachloride		5 ug/L
Chlorobenzene		100 ug/L
Chloroethane	--	ug/L
Chloroform	--	ug/L
Chloromethane	--	ug/L
cis-1,2-Dichloroethene		70 ug/L
cis-1,3-Dichloropropene	--	ug/L
Cyclohexane	--	ug/L
Dibromochloromethane	--	ug/L
Dichlorodifluoromethane	--	ug/L
Ethylbenzene		700 ug/L
Isopropylbenzene	--	ug/L

Preliminary Screening Levels--Water Inorganic

Chemical	MCL/TT_VALUE	UNITS
Antimony		6 ug/L
Arsenic		10 ug/L
Barium		2000 ug/L
Beryllium		4 ug/L
Cadmium		5 ug/L
Chromium		100 ug/L
Cobalt	--	ug/L
Copper		1300 ug/L
Cyanide		200 ug/L
Lead		15 ug/L
Manganese	--	ug/L
Mercury		2 ug/L
Nickel	--	ug/L
Selenium		50 ug/L
Silver	--	ug/L
Thallium		2 ug/L
Vanadium	--	ug/L
Zinc	--	ug/L

US EPA National Primary Drinking Water Standards, Maximum Contaminant Limits (or Treatment Techniques), May 2009



**Environmental Protection Agency Region 5
Chicago Regional Laboratory**

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund. US EPA Region 5 77 West Jackson Boulevard Chicago IL. 60604	Project: Chemetco Superfund Site Project Number: [none] Project Manager: Betty Lavis	Reported: Jan-27-11 11 02
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CW-4	1101011-01	Water	Jan-12-11 15:37	Jan-14-11 08:30

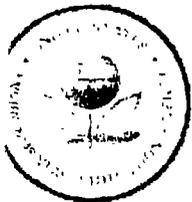
**Oil and Grease by Gravimetric Analyses, EPA 1664 (modified)
US EPA Region 5 Chicago Regional Laboratory**

CW-4 (1101011-01) Water Sampled: Jan-12-11 15:37 Received: Jan-14-11 08:30

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Oil & Grease	127		0.900	1.80	mg/L	1	B101027	Jan-19-11	Jan-19-11



Danita Larry, Analyst



Environmental Protection Agency Region 5
Chicago Regional Laboratory

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Phone:(312)353-8370 Fax:(312)886-2591

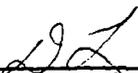
Superfund, US EPA Region 5
77 West Jackson Boulevard
Chicago IL, 60604

Project: Chemetco Superfund Site
Project Number: [none]
Project Manager: Betty Lavis

Reported:
Jan-27-11 11:02

Notes and Definitions

U Not Detected
NR Not Reported



Danita Larry, Analyst



Environmental Protection Agency Region 5
Chicago Regional Laboratory

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Chemetco Superfund Site Project Number: [none] Project Manager: Betty Lavis	Reported: Jan-24-11 12:57
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CW-4	1101011-01	Water	Jan-12-11 15:37	Jan-14-11 08:30

Total Suspended Solids, SM 2540 D (modified)
US EPA Region 5 Chicago Regional Laboratory

CW-4 (1101011-01) Water Sampled: Jan-12-11 15:37 Received: Jan-14-11 08:30

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Suspended Solids	20			5	mg/L	1	B101021	Jan-14-11	Jan-19-11

LW *1/24/11*

 Laurence Wong, Analyst



Environmental Protection Agency Region 5
Chicago Regional Laboratory

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Superfund, US EPA Region 5
77 West Jackson Boulevard
Chicago IL, 60604

Project: Chemetco Superfund Site
Project Number: [none]
Project Manager: Betty Lavis

Reported:
Jan-24-11 12.57

Notes and Definitions

U Not Detected
NR Not Reported

Laurence Wong, Analyst

LW *1/24/11*



**Environmental Protection Agency Region 5
Chicago Regional Laboratory**

536 South Clark Street, Chicago, IL 60605
Phone: (312)353-8370 Fax: (312)886-2591

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project Chemetco Superfund Site Project Number [none] Project Manager Betty Lavis	Reported: Feb-10-11 14 49
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**Ammonia Nitrogen, Colorimetric, EPA 350.1 (modified)
US EPA Region 5 Chicago Regional Laboratory**

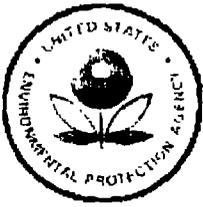
CW-4 (1101011-01) Water Sampled: Jan-12-11 15:37 Received: Jan-14-11 08:30

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Ammonia as N	0.456		0.05	0.100	mg/L	1	B102004	Feb-04-11	Feb-04-11


Nidia Fuentes, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
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Superfund, US EPA Region 5
77 West Jackson Boulevard
Chicago IL, 60604

Project: Chemetco Superfund Site
Project Number: [none]
Project Manager: Betty Lavis

Reported:
Feb-10-11 14:49

Total Kjeldahl Nitrogen, EPA 351.2 (modified)
US EPA Region 5 Chicago Regional Laboratory

CW-4 (1101011-01) Water Sampled: Jan-12-11 15:37 Received: Jan-14-11 08:30

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Kjeldahl Nitrogen	1.23		0.30	0.50	mg/L	1	B102005	Feb-07-11	Feb-07-11


Nidia Fuentes, Analyst



Environmental Protection Agency Region 5
Chicago Regional Laboratory

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Superfund, US EPA Region 5
77 West Jackson Boulevard
Chicago IL, 60604

Project: Chemetco Superfund Site
Project Number [none]
Project Manager Betty Lavis

Reported:
Feb-10-11 14 49

Notes and Definitions

- J The identification of the analyte is acceptable, the reported value is an estimate.
- * This Quality Control measure meets the requirements of the CRL SOP for this analyte
- U Not Detected
- NR Not Reported


Lidia Fuentes, Analyst





Environmental Protection Agency Region 5 Chicago Regional Laboratory

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Superfund, US EPA Region 5
77 West Jackson Boulevard
Chicago IL, 60604

Project Chemetco Superfund Site
Project Number: [none]
Project Manager: Betty Lavis

Reported:
Feb-10-11 09:05

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CW-4	1101011-01	Water	Jan-12-11 15:37	Jan-14-11 08:30

BOD, 5 day, EPA 405.1 (modified)

US EPA Region 5 Chicago Regional Laboratory

CW-4 (1101011-01) Water Sampled: Jan-12-11 15:37 Received: Jan-14-11 08:30

Analyte	Result	Flags/ Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Biochemical Oxygen Demand	4.7	J	2.0	2.0	mg/L	1	B101020	Jan-14-11	Jan-14-11

FAS 2/10/2011

Francis Awanya, Group Leader





**Environmental Protection Agency Region 5
Chicago Regional Laboratory**

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Chemetco Superfund Site Project Number: [none] Project Manager: Betty Lavis	Reported: Feb-11-11 12 53
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CW-4	1101011-01	Water	Jan-12-11 15 37	Jan-14-11 08 30

COD by EPA 410.4 (modified)

US EPA Region 5 Chicago Regional Laboratory

CW-4 (1101011-01) Water Sampled: Jan-12-11 15:37 Received: Jan-14-11 08:30

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Chemical Oxygen Demand	41		4	25	mg/L	1	B102003	Feb-07-11	Feb-08-11

AA 2-11-11

Anna Aleszczyk, Chemist



Environmental Protection Agency Region 5
Chicago Regional Laboratory

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Superfund, US EPA Region 5
77 West Jackson Boulevard
Chicago IL, 60604

Project: Chemetco Superfund Site
Project Number: [none]
Project Manager: Betty Lavis

Reported:
Feb-11-11 12:53

Notes and Definitions

U Not Detected
NR Not Reported

AA 2-11-11

Anna Aleszczyk, Chemist

No: 40949	Contract: EPW09044	SDG No: ME52Z5	Lab Code: STLV
Sample Number: ME5308	Method: CN	Matrix: Soil	MA Number: DEFAULT
Sample Location: CS-5	pH:	Sample Date: 01122011	Sample Time: 08:40:00
% Moisture :		% Solids : 81.3	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	0.72	mg/kg	1.0		J+	Yes	S2BVE

Sample No:	40949	Contract:	EPW09044	SDG No:	ME52Z5	Lab Code:	STLV
Sample Number:	ME5308	Method:	Hg	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	CS-5	pH:		Sample Date:	01122011	Sample Time:	08.40:00
Moisture :		% Solids :	81.3				

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.011	mg/kg	1.0	J	J-	Yes	S2BVE

No: 40949	Contract: EPW09044	SDG No: ME52Z5	Lab Code: STLV
Sample Number: ME5308	Method: ICP_AES	Matrix: Soil	MA Number: DEFAULT
Sample Location: CS-5	pH:	Sample Date: 01122011	Sample Time: 08 40 00
% Moisture :		% Solids : 81.3	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	7930	mg/kg	1.0			Yes	S2BVE
Antimony	5.9	mg/kg	1.0	UN	UJ	Yes	S2BVE
Arsenic	5.0	mg/kg	1.0			Yes	S2BVE
Barium	167	mg/kg	1.0			Yes	S2BVE
Beryllium	0.93	mg/kg	1.0			Yes	S2BVE
Cadmium	2.0	mg/kg	1.0			Yes	S2BVE
Calcium	2950	mg/kg	1.0			Yes	S2BVE
Chromium	12.5	mg/kg	1.0			Yes	S2BVE
Cobalt	7.0	mg/kg	1.0			Yes	S2BVE
Copper	207	mg/kg	10.0	D		Yes	S2BVE
Iron	12700	mg/kg	1.0			Yes	S2BVE
Lead	169	mg/kg	10.0	DE	J	Yes	S2BVE
Magnesium	2220	mg/kg	1.0			Yes	S2BVE
Manganese	535	mg/kg	20.0	D	J	Yes	S2BVE
Nickel	21.4	mg/kg	1.0			Yes	S2BVE
Potassium	1710	mg/kg	1.0			Yes	S2BVE
Selenium	3.4	mg/kg	1.0	U	U	Yes	S2BVE
Silver	0.98	mg/kg	1.0	UN	UJ	Yes	S2BVE
Sodium	46.9	mg/kg	1.0	J	J	Yes	S2BVE
Thallium	2.4	mg/kg	1.0	U	U	Yes	S2BVE
Vanadium	19.5	mg/kg	1.0			Yes	S2BVE
Zinc	741	mg/kg	10.0	D	J	Yes	S2BVE

Job No:	40949	Contract:	EPW09044	SDG No:	ME52Z5	Lab Code:	STLV
Sample Number:	ME5309	Method:	CN	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	CS-6	pH:		Sample Date:	01122011	Sample Time:	08:35.00
Moisture:		% Solids:	63.2				

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	0.78	mg/kg	1.0		J+	Yes	S2BVE

40949	Contract:	EPW09044	SDG No:	ME52Z5	Lab Code:	STLV	
Sample Number:	ME5309	Method:	ICP_AES	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	CS-6	pH:		Sample Date:	01122011	Sample Time:	08.35:00
% Moisture :		% Solids :		63.2			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	8730	mg/kg	1.0			Yes	S2BVE
Antimony	7.7	mg/kg	1.0	U N	UJ	Yes	S2BVE
Arsenic	6.6	mg/kg	1.0			Yes	S2BVE
Barium	258	mg/kg	1.0			Yes	S2BVE
Beryllium	3.0	mg/kg	1.0			Yes	S2BVE
Cadmium	3.7	mg/kg	1.0			Yes	S2BVE
Calcium	2870	mg/kg	1.0			Yes	S2BVE
Chromium	17.3	mg/kg	1.0			Yes	S2BVE
Cobalt	11.4	mg/kg	1.0			Yes	S2BVE
Copper	419	mg/kg	10.0	D		Yes	S2BVE
Iron	18800	mg/kg	1.0			Yes	S2BVE
Lead	451	mg/kg	20.0	D E	J	Yes	S2BVE
Magnesium	2450	mg/kg	1.0			Yes	S2BVE
Manganese	737	mg/kg	20.0	D	J	Yes	S2BVE
Nickel	39.0	mg/kg	1.0			Yes	S2BVE
Potassium	2190	mg/kg	1.0			Yes	S2BVE
Selenium	4.5	mg/kg	1.0	U	U	Yes	S2BVE
Silver	1.3	mg/kg	1.0	U N	UJ	Yes	S2BVE
Sodium	235	mg/kg	1.0	J	J	Yes	S2BVE
Thallium	3.2	mg/kg	1.0	U	U	Yes	S2BVE
Vanadium	21.5	mg/kg	1.0			Yes	S2BVE
Zinc	2670	mg/kg	20.0	D	J	Yes	S2BVE

Case No:	40949	Contract:	EPW09044	SDG No.	ME5225	Lab Code:	STLV
Sample Number:	ME5309	Method:	Hg	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	CS-6	pH:		Sample Date:	01122011	Sample Time:	08:35.00
% Moisture :		% Solids :			63.2		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.034	mg/kg	1.0	J	J-	Yes	S2BVE

Sample No:	40949	Contract:	EPW09044	SDG No:	ME52Z5	Lab Code:	STLV
Sample Number:	ME5310	Method:	ICP_AES	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	CS-7	pH:		Sample Date:	01122011	Sample Time:	09:15:00
% Moisture:		% Solids:	76.9				

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	8250	mg/kg	1.0			Yes	S2BVE
Antimony	14.5	mg/kg	1.0	N	J	Yes	S2BVE
Arsenic	23.8	mg/kg	1.0			Yes	S2BVE
Barium	292	mg/kg	1.0			Yes	S2BVE
Beryllium	11.5	mg/kg	1.0			Yes	S2BVE
Cadmium	12.9	mg/kg	1.0			Yes	S2BVE
Calcium	7630	mg/kg	1.0			Yes	S2BVE
Chromium	27.4	mg/kg	1.0			Yes	S2BVE
Cobalt	26.5	mg/kg	1.0			Yes	S2BVE
Copper	4880	mg/kg	100.0	D		Yes	S2BVE
Iron	34300	mg/kg	100.0	D		Yes	S2BVE
Lead	2770	mg/kg	100.0	DE	J	Yes	S2BVE
Magnesium	2990	mg/kg	1.0			Yes	S2BVE
Manganese	824	mg/kg	100.0	D	J	Yes	S2BVE
Nickel	648	mg/kg	100.0	D		Yes	S2BVE
Potassium	1380	mg/kg	1.0			Yes	S2BVE
Selenium	0.57	mg/kg	1.0	J	J	Yes	S2BVE
Silver	7.0	mg/kg	1.0	N	J	Yes	S2BVE
Sodium	1430	mg/kg	1.0			Yes	S2BVE
Thallium	2.6	mg/kg	1.0	U	U	Yes	S2BVE
Vanadium	19.5	mg/kg	1.0			Yes	S2BVE
Zinc	8420	mg/kg	100.0	D	J	Yes	S2BVE

No:	40949	Contract:	EPW09044	SDG No:	ME52Z5	Lab Code:	STLV
Sample Number:	ME5310	Method:	CN	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	CS-7	pH:		Sample Date:	01122011	Sample Time:	09:15:00
Moisture :		% Solids :	76.9				

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	0.78	mg/kg	1.0		J+	Yes	S2BVE

40949	Contract:	EPW09044	SDG No:	ME52Z5	Lab Code:	STLV	
Sample Number:	ME5310	Method:	Hg	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	CS-7	pH:		Sample Date:	01122011	Sample Time:	09:15.00
% Moisture :		% Solids :	76.9				

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.096	mg/kg	1.0	J	J	Yes	S2BVE

Case No:	40949	Contract:	EPW09044	SDG No:	ME52Z5	Lab Code:	STLV
Sample Number:	ME5311	Method:	Hg	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	CS-8	pH:		Sample Date:	01122011	Sample Time:	09:20:00
Moisture :		% Solids :	38.6				

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.11	mg/kg	1.0	J	J-	Yes	S2BVE

No: 40949	Contract. EPW09044	SDG No: ME52Z5	Lab Code: STLV
Sample Number: ME5311	Method: ICP_AES	Matrix: Soil	MA Number DEFAULT
Sample Location. CS-8	pH:	Sample Date: 01122011	Sample Time: 09:20.00
% Moisture :		% Solids : 38.6	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	6540	mg/kg	1.0			Yes	S2BVE
Antimony	3.4	mg/kg	1.0	JN	J	Yes	S2BVE
Arsenic	11.6	mg/kg	1.0			Yes	S2BVE
Barium	311	mg/kg	1.0			Yes	S2BVE
Beryllium	2.2	mg/kg	1.0			Yes	S2BVE
Cadmium	31.2	mg/kg	1.0			Yes	S2BVE
Calcium	7330	mg/kg	1.0			Yes	S2BVE
Chromium	14.9	mg/kg	1.0			Yes	S2BVE
Cobalt	10.7	mg/kg	1.0			Yes	S2BVE
Copper	2540	mg/kg	100.0	D		Yes	S2BVE
Iron	14000	mg/kg	100.0	D		Yes	S2BVE
Lead	1570	mg/kg	100.0	DE	J	Yes	S2BVE
Magnesium	2400	mg/kg	1.0			Yes	S2BVE
Manganese	1010	mg/kg	100.0	D	J	Yes	S2BVE
Nickel	1170	mg/kg	100.0	D		Yes	S2BVE
Potassium	1520	mg/kg	1.0			Yes	S2BVE
Selenium	7.2	mg/kg	1.0	U	U	Yes	S2BVE
Silver	1.9	mg/kg	1.0	JN	J	Yes	S2BVE
Sodium	124	mg/kg	1.0	J	J	Yes	S2BVE
Thallium	5.1	mg/kg	1.0	U	U	Yes	S2BVE
Vanadium	18.0	mg/kg	1.0			Yes	S2BVE
Zinc	3040	mg/kg	100.0	D	J	Yes	S2BVE

Sample No:	40949	Contract:	EPW09044	SDG No:	ME52Z5	Lab Code:	STLV
Sample Number:	ME5311	Method:	CN	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	CS-8	pH:		Sample Date:	01122011	Sample Time:	09.20.00
Moisture :		% Solids :	38.6				

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	1.7	mg/kg	1.0		J+	Yes	S2BVE

Contract: 40949	Contract: EPW09044	SDG No: ME52Z5	Lab Code: STLV
Sample Number: ME5312	Method: ICP_AES	Matrix: Soil	MA Number: DEFAULT
Sample Location: CS-9	pH:	Sample Date: 01122011	Sample Time: 12:35 00
% Moisture :		% Solids : 64.7	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	8650	mg/kg	1.0			Yes	S2BVE
Antimony	30.0	mg/kg	1.0	N	J	Yes	S2BVE
Arsenic	36.5	mg/kg	1.0			Yes	S2BVE
Barium	710	mg/kg	1.0			Yes	S2BVE
Beryllium	10.4	mg/kg	1.0			Yes	S2BVE
Cadmium	133	mg/kg	10.0	D		Yes	S2BVE
Calcium	9810	mg/kg	1.0			Yes	S2BVE
Chromium	42.3	mg/kg	10.0	D		Yes	S2BVE
Cobalt	29.2	mg/kg	1.0			Yes	S2BVE
Copper	7720	mg/kg	100.0	D		Yes	S2BVE
Iron	45200	mg/kg	10.0	D		Yes	S2BVE
Lead	8500	mg/kg	1000.0	D E	J	Yes	S2BVE
Cesium	3110	mg/kg	1.0			Yes	S2BVE
Manganese	987	mg/kg	100.0	D	J	Yes	S2BVE
Nickel	644	mg/kg	100.0	D		Yes	S2BVE
Potassium	1450	mg/kg	1.0			Yes	S2BVE
Selenium	1.6	mg/kg	1.0	J	J	Yes	S2BVE
Silver	11.6	mg/kg	1.0	N	J	Yes	S2BVE
Sodium	960	mg/kg	1.0			Yes	S2BVE
Thallium	3.1	mg/kg	1.0	U	U	Yes	S2BVE
Vanadium	21.2	mg/kg	1.0			Yes	S2BVE
Zinc	21700	mg/kg	100.0	D	J	Yes	S2BVE

Case No:	40949	Contract:	EPW09044	SDG No:	ME52Z5	Lab Code:	STLV
Sample Number:	ME5312	Method:	CN	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	CS-9	pH:		Sample Date:	01122011	Sample Time:	12.35 00
% Moisture :		% Solids :	64.7				

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	0.90	mg/kg	1.0		J+	Yes	S2BVE

Ca	40949	Contract:	EPW09044	SDG No:	ME52Z5	Lab Code:	STLV
Sample Number:	ME5313	Method:	ICP_AES	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	CS-10	pH:		Sample Date:	01122011	Sample Time:	11 50:00
% Moisture :		% Solids :	75.9				

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	8930	mg/kg	1.0			Yes	S2BVE
Antimony	6.4	mg/kg	1.0	UN	UJ	Yes	S2BVE
Arsenic	5.6	mg/kg	1.0			Yes	S2BVE
Barium	128	mg/kg	1.0			Yes	S2BVE
Beryllium	0.50	mg/kg	1.0	J	J	Yes	S2BVE
Cadmium	0.72	mg/kg	1.0			Yes	S2BVE
Calcium	3790	mg/kg	1.0			Yes	S2BVE
Chromium	12.3	mg/kg	1.0			Yes	S2BVE
Cobalt	7.0	mg/kg	1.0			Yes	S2BVE
Copper	28.1	mg/kg	1.0			Yes	S2BVE
Iron	14300	mg/kg	1.0			Yes	S2BVE
Lead	27.4	mg/kg	1.0	E	J	Yes	S2BVE
Cesium	2910	mg/kg	1.0			Yes	S2BVE
Manganese	509	mg/kg	100.0	D	J	Yes	S2BVE
Nickel	16.4	mg/kg	1.0			Yes	S2BVE
Potassium	1810	mg/kg	1.0			Yes	S2BVE
Selenium	3.7	mg/kg	1.0	U	U	Yes	S2BVE
Silver	1.1	mg/kg	1.0	UN	UJ	Yes	S2BVE
Sodium	61.1	mg/kg	1.0	J	J	Yes	S2BVE
Thallium	2.7	mg/kg	1.0	U	U	Yes	S2BVE
Vanadium	21.0	mg/kg	1.0			Yes	S2BVE
Zinc	89.1	mg/kg	1.0		J	Yes	S2BVE

Case No:	40949	Contract:	EPW09044	SDG No:	ME52Z5	Lab Code:	STLV
Sample Number:	ME5312	Method:	Hg	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	CS-9	pH:		Sample Date:	01122011	Sample Time:	12:35:00
% Moisture .				% Solids :	64.7		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.72	mg/kg	1.0			Yes	S2BVE

40949	Contract:	EPW09044	SDG No:	ME52Z5	Lab Code:	STLV	
Sample Number:	ME5313	Method:	Hg	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	CS-10	pH:		Sample Date:	01122011	Sample Time:	11:50:00
% Moisture :		% Solids :	75.9				

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.021	mg/kg	1.0	J	J-	Yes	S2BVE

Case No:	40949	Contract:	EPW09044	SDG No:	ME52Z5	Lab Code:	STLV
Sample Number:	ME5313	Method:	CN	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	CS-10	pH:		Sample Date:	01122011	Sample Time:	11 50 00
% Moisture :				% Solids :	75.9		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	0.67	mg/kg	1.0		J+	Yes	S2BVE

No:	40949	Contract:	EPW09044	SDG No:	ME52Z5	Lab Code:	STLV
Sample Number:	ME5318	Method:	ICP_AES	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	CS-6-FD	pH:		Sample Date:	01122011	Sample Time:	08:35.00
% Moisture :		% Solids :	63.8				

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	9200	mg/kg	1.0			Yes	S2BVE
Antimony	7.6	mg/kg	1.0	UN	UJ	Yes	S2BVE
Arsenic	7.2	mg/kg	1.0			Yes	S2BVE
Barium	253	mg/kg	1.0			Yes	S2BVE
Beryllium	3.3	mg/kg	1.0			Yes	S2BVE
Cadmium	4.1	mg/kg	1.0			Yes	S2BVE
Calcium	2850	mg/kg	1.0			Yes	S2BVE
Chromium	19.1	mg/kg	1.0			Yes	S2BVE
Cobalt	10.3	mg/kg	1.0			Yes	S2BVE
Copper	508	mg/kg	10.0	D		Yes	S2BVE
Iron	20200	mg/kg	1.0			Yes	S2BVE
Lead	534	mg/kg	100.0	DE	J	Yes	S2BVE
Magnesium	2510	mg/kg	1.0			Yes	S2BVE
Manganese	624	mg/kg	100.0	D	J	Yes	S2BVE
Nickel	41.9	mg/kg	1.0			Yes	S2BVE
Potassium	2400	mg/kg	1.0			Yes	S2BVE
Selenium	4.4	mg/kg	1.0	U	U	Yes	S2BVE
Silver	1.3	mg/kg	1.0	UN	UJ	Yes	S2BVE
Sodium	213	mg/kg	1.0	J	J	Yes	S2BVE
Thallium	3.2	mg/kg	1.0	U	U	Yes	S2BVE
Vanadium	22.6	mg/kg	1.0			Yes	S2BVE
Zinc	3150	mg/kg	100.0	D	J	Yes	S2BVE

Case No:	40949	Contract:	EPW09044	SDG No:	ME52Z5	Lab Code:	STLV
Sample Number:	ME5318	Method:	Hg	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	CS-6-FD	pH:		Sample Date:	01122011	Sample Time:	08:35:00
% Moisture :		% Solids :	63.8				

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.033	mg/kg	1.0	J	J-	Yes	S2BVE

No: 40949	Contract: EPW09044	SDG No: ME5225	Lab Code: STL
Sample Number: ME5318	Method: CN	Matrix: Soil	MA Number: DEFAULT
Sample Location: CS-6-FD	pH:	Sample Date: 01122011	Sample Time: 08:35.00
% Moisture :		% Solids : 63.8	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	0.93	mg/kg	1.0		J+	Yes	S2BVE



EXES ISM01.2 Data Qualifier Sheet

Qualifiers Data Qualifier Definitions

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The result is an estimated quantity, but the result may be biased high.
- J- The result is an estimated quantity, but the result may be biased low.
-
- ~~R The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.~~
- UJ The analyte was analyzed for, but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.



Case No:	40949	Contract:	EPW09044	SDG No:	ME52Z1	Lab Code:	STLV
File Number:	ME5302	Method:	ICP_MS	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	CW-2	pH:	12.0	Sample Date:	01122011	Sample Time:	11 07.00
% Moisture:		% Solids:					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Antimony	2.0	ug/L	1.0	J	U	Yes	S2BVE
Arsenic	5.2	ug/L	1.0			Yes	S2BVE
Barium	11.8	ug/L	1.0			Yes	S2BVE
Beryllium	1.0	ug/L	1.0	U	U	Yes	S2BVE
Cadmium	1.0	ug/L	1.0	U	U	Yes	S2BVE
Chromium	2.0	ug/L	1.0	J	U	Yes	S2BVE
Cobalt	1.0	ug/L	1.0	U	U	Yes	S2BVE
Copper	1.4	ug/L	1.0	J	J	Yes	S2BVE
Lead	1.0	ug/L	1.0	J	U	Yes	S2BVE
Manganese	1.0	ug/L	1.0	U	U	Yes	S2BVE
Nickel	1.0	ug/L	1.0	J	U	Yes	S2BVE
Selenium	17.8	ug/L	1.0			Yes	S2BVE
Silver	1.0	ug/L	1.0	U	U	Yes	S2BVE
Thallium	1.0	ug/L	1.0	J	U	Yes	S2BVE
Vanadium	5.0	ug/L	1.0	J	U	Yes	S2BVE
Zinc	3.1	ug/L	1.0		J+	Yes	S2BVE



No:	40949	Contract:	EPW09044	SDG No:	ME52Z1	Lab Code:	STLV
Sample Number:	ME5302	Method:	CN	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	CW-2	pH:	12.0	Sample Date:	01122011	Sample Time:	11:07:00
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	10.0	ug/L	1.0	U	U	Yes	S2BVE

Case No:	40949	Contract:	EPW09044	SDG No:	ME52Z1	Lab Code:	STLV
Sample Number:	ME5302	Method:	Hg	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	CW-2	pH:	12.0	Sample Date:	01122011	Sample Time:	11.07.00
Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.20	ug/L	1.0	J	U	Yes	S2BVE

Case No:	40949	Contract:	EPW09044	SDG No:	ME52Z1	Lab Code:	STLV
File Number:	ME5303	Method:	ICP_MS	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	CW-3	pH:	12.0	Sample Date:	01122011	Sample Time:	09:50:00
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Antimony	17.6	ug/L	10.0	D		Yes	S2BVE
Arsenic	23.4	ug/L	5.0	D		Yes	S2BVE
Barium	98.9	ug/L	1.0			Yes	S2BVE
Beryllium	0.26	ug/L	1.0	J	J-	Yes	S2BVE
Cadmium	3.5	ug/L	1.0			Yes	S2BVE
Chromium	2.0	ug/L	1.0	J	U	Yes	S2BVE
Cobalt	0.53	ug/L	1.0	J	J-	Yes	S2BVE
Copper	62.5	ug/L	1.0			Yes	S2BVE
Lead	96.4	ug/L	10.0	D		Yes	S2BVE
Manganese	33.6	ug/L	1.0			Yes	S2BVE
Nickel	21.1	ug/L	1.0			Yes	S2BVE
Selenium	35.4	ug/L	1.0			Yes	S2BVE
Silver	1.0	ug/L	1.0	U	U	Yes	S2BVE
Thallium	1.6	ug/L	1.0			Yes	S2BVE
Vanadium	5.0	ug/L	1.0	U	U	Yes	S2BVE
Zinc	225	ug/L	5.0	D	J+	Yes	S2BVE



No: 40949	Contract: EPW09044	SDG No: ME52Z1	Lab Code: STL
Sample Number: ME5303	Method: Hg	Matrix: Water	MA Number: DEFAULT
Sample Location: CW-3	pH: 12.0	Sample Date: 01122011	Sample Time: 09:50:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.20	ug/L	1.0	J	U	Yes	S2BVE

Job No: 40949	Contract: EPW09044	SDG No: ME52Z1	Lab Code: STLV
Sample Number: ME5303	Method: CN	Matrix: Water	MA Number: DEFAULT
Sample Location: CW-3	pH: 12.0	Sample Date: 01122011	Sample Time: 09:50:00
Moisture :	% Solids :		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	10.0	ug/L	1.0	U	U	Yes	S2BVE

No: 40949	Contract: EPW09044	SDG No: ME52Z1	Lab Code: STLV
Sample Number: ME5304	Method: Hg	Matrix: Water	MA Number: DEFAULT
Sample Location: CW-4	pH: 12.0	Sample Date: 01122011	Sample Time: 10:11.00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.20	ug/L	1.0	U	U	Yes	S2BVE

File No:	40949	Contract:	EPW09044	SDG No:	ME5221	Lab Code:	STLV
Sample Number:	ME5304	Method:	CN	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	CW-4	pH:	12.0	Sample Date:	01122011	Sample Time:	10:11:00
Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	10.0	ug/L	1.0	U	U	Yes	S2BVE

No: 40949	Contract: EPW09044	SDG No: ME5221	Lab Code: STLV
Sample Number: ME5304	Method: ICP_MS	Matrix: Water	MA Number: DEFAULT
Sample Location: CW-4	pH: 12.0	Sample Date: 01122011	Sample Time: 10:11 00
% Moisture :	% Solids :		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Antimony	10.3	ug/L	1.0			Yes	S2BVE
Arsenic	14.7	ug/L	10.0	D	J-	Yes	S2BVE
Barium	99.6	ug/L	1.0			Yes	S2BVE
Beryllium	0.24	ug/L	1.0	J	J-	Yes	S2BVE
Cadmium	5.4	ug/L	1.0			Yes	S2BVE
Chromium	2.0	ug/L	1.0	J	U	Yes	S2BVE
Cobalt	0.82	ug/L	1.0	J	J	Yes	S2BVE
Copper	57.2	ug/L	1.0			Yes	S2BVE
Lead	105	ug/L	10.0	D		Yes	S2BVE
Manganese	184	ug/L	100.0	D	J+	Yes	S2BVE
Nickel	34.8	ug/L	1.0			Yes	S2BVE
Selenium	16.4	ug/L	1.0			Yes	S2BVE
Silver	1.0	ug/L	1.0	U	U	Yes	S2BVE
Thallium	1.0	ug/L	1.0	J	U	Yes	S2BVE
Vanadium	2.6	ug/L	1.0	J	J	Yes	S2BVE
Zinc	386	ug/L	10.0	D	J+	Yes	S2BVE

Sample No:	40949	Contract:	EPW09044	SDG No:	ME52Z1	Lab Code:	STLV
Sample Number:	ME5305	Method:	CN	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	CW-5	pH:	12.0	Sample Date:	01122011	Sample Time:	10:35.00
Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	10.0	ug/L	1.0	U	U	Yes	S2BVE

Case No:	40949	Contract:	EPW09044	SDG No:	ME52Z1	Lab Code:	STLV
Number:	ME5305	Method:	ICP_MS	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	CW-5	pH:	12.0	Sample Date:	01122011	Sample Time:	10:35:00
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Antimony	2.0	ug/L	1.0	J	U	Yes	S2BVE
Arsenic	4.3	ug/L	1.0			Yes	S2BVE
Barium	70.0	ug/L	1.0			Yes	S2BVE
Beryllium	1.0	ug/L	1.0	U	U	Yes	S2BVE
Cadmium	0.64	ug/L	1.0	J	J-	Yes	S2BVE
Chromium	2.0	ug/L	1.0	U	U	Yes	S2BVE
Cobalt	0.21	ug/L	1.0	J	J-	Yes	S2BVE
Copper	8.2	ug/L	1.0			Yes	S2BVE
Lead	6.0	ug/L	1.0			Yes	S2BVE
Manganese	688	ug/L	100.0	D	J+	Yes	S2BVE
Nickel	4.6	ug/L	1.0		J+	Yes	S2BVE
Selenium	10.2	ug/L	1.0			Yes	S2BVE
Silver	1.0	ug/L	1.0	U	U	Yes	S2BVE
Thallium	1.0	ug/L	1.0	J	U	Yes	S2BVE
Vanadium	5.0	ug/L	1.0	U	U	Yes	S2BVE
Zinc	31.8	ug/L	1.0		J+	Yes	S2BVE

Case No:	40949	Contract:	EPW09044	SDG No:	MB52Z1	Lab Code:	STLV
Sample Number:	ME5305	Method:	Hg	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	CW-5	pH:	12.0	Sample Date:	01122011	Sample Time:	10 35.00
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.20	ug/L	1.0	J	U	Yes	S2BVE

No: 40949	Contract: EPW09044	SDG No: ME52Z1	Lab Code: STLV
Sample Number: ME52Z1	Method: CN	Matrix: Water	MA Number: DEFAULT
Sample Location: GW-1	pH: 12.0	Sample Date: 01122011	Sample Time: 09:15:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	10.0	ug/L	1.0	U	U	Yes	S2BVE



Case No:	40949	Contract:	EPW09044	SDG No:	ME52Z1	Lab Code:	STLV
Sample Number:	ME52Z1	Method:	Hg	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	GW-1	pH:	12.0	Sample Date:	01122011	Sample Time:	09:15.00
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.21	ug/L	1.0		J-	Yes	S2BVE



Case No: 40949	Contract: EPW09044	SDG No: ME52Z1	Lab Code: STLV
File Number: ME52Z1	Method: ICP_MS	Matrix: Water	MA Number: DEFAULT
Sample Location: GW-1	pH: 12.0	Sample Date: 01122011	Sample Time: 09:15:00
% Moisture :	% Solids :		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Antimony	2.0	ug/L	1.0	J	U	Yes	S2BVE
Arsenic	24.9	ug/L	5.0	D		Yes	S2BVE
Barium	856	ug/L	10.0	D		Yes	S2BVE
Beryllium	0.59	ug/L	1.0	J	J-	Yes	S2BVE
Cadmium	0.18	ug/L	1.0	J	J-	Yes	S2BVE
Chromium	34.3	ug/L	1.0			Yes	S2BVE
Cobalt	13.6	ug/L	10.0	D		Yes	S2BVE
Copper	30.1	ug/L	1.0			Yes	S2BVE
Lead	27.6	ug/L	10.0	D		Yes	S2BVE
Manganese	1450	ug/L	100.0	D	J+	Yes	S2BVE
Nickel	44.9	ug/L	1.0			Yes	S2BVE
Selenium	34.4	ug/L	1.0			Yes	S2BVE
Silver	1.0	ug/L	1.0	U	U	Yes	S2BVE
Thallium	1.0	ug/L	1.0	J	U	Yes	S2BVE
Vanadium	34.2	ug/L	1.0			Yes	S2BVE
Zinc	258	ug/L	5.0	D	J+	Yes	S2BVE



Case No: 40949	Contract: EPW09044	SDG No: ME52Z1	Lab Code: STLV
Number: ME52Z2	Method: ICP_MS	Matrix: Water	MA Number: DEFAULT
Sample Location: GW-2	pH: 12.0	Sample Date: 01122011	Sample Time: 11:15:00
% Moisture :	% Solids :		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Antimony	2.0	ug/L	1.0	J	U	Yes	S2BVE
Arsenic	95.8	ug/L	1.0		J	Yes	S2BVE
Barium	319	ug/L	10.0	D		Yes	S2BVE
Beryllium	1.0	ug/L	1.0	U	U	Yes	S2BVE
Cadmium	0.65	ug/L	1.0	J	J-	Yes	S2BVE
Chromium	2.6	ug/L	1.0			Yes	S2BVE
Cobalt	2.9	ug/L	1.0			Yes	S2BVE
Copper	40.2	ug/L	1.0			Yes	S2BVE
Lead	25.5	ug/L	10.0	D		Yes	S2BVE
Manganese	4700	ug/L	100.0	D		Yes	S2BVE
Nickel	12.3	ug/L	1.0			Yes	S2BVE
Selenium	225	ug/L	10.0	D		Yes	S2BVE
Silver	1.0	ug/L	1.0	U	U	Yes	S2BVE
Thallium	1.0	ug/L	1.0	J	U	Yes	S2BVE
Vanadium	4.8	ug/L	1.0	J	J	Yes	S2BVE
Zinc	40.9	ug/L	1.0		J+	Yes	S2BVE

Case No: 40949	Contract: EPW09044	SDG No: ME52Z1	Lab Code: STLV
Sample Number: ME52Z2	Method: Hg	Matrix: Water	MA Number: DEFAULT
Sample Location: GW-2	pH: 12.0	Sample Date: 01122011	Sample Time: 11.15.00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.23	ug/L	1.0		J-	Yes	S2BVE

No: 40949	Contract: EPW09044	SDG No: ME52Z1	Lab Code: STLV
Sample Number: ME52Z2	Method: CN	Matrix: Water	MA Number: DEFAULT
Sample Location: GW-2	pH: 12.0	Sample Date: 01122011	Sample Time: 11:15.00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	10.0	ug/L	1.0	U	U	Yes	S2BVE



No:	40949	Contract:	EPW09044	SDG No:	ME52Z1	Lab Code:	STLV
Sample Number:	ME5314	Method:	Hg	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	GW-2-FD	pH:	12.0	Sample Date:	01122011	Sample Time:	11:15.00
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.20	ug/L	1.0	J	U	Yes	S2BVE



No: 40949	Contract: EPW09044	SDG No: ME52Z1	Lab Code: STLV
Sample Number: ME5314	Method: CN	Matrix: Water	MA Number: DEFAULT
Sample Location: GW-2-FD	pH: 12.0	Sample Date: 01122011	Sample Time: 11:15 00
% Moisture :	% Solids :		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	10.0	ug/L	1.0	U	U	Yes	S2BVE

Sample No:	40949	Contract:	EPW09044	SDG No:	ME52Z1	Lab Code:	STLV
Sample Number:	ME5314	Method:	ICP_MS	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	GW-2-FD	pH:	12.0	Sample Date:	01122011	Sample Time:	11:15.00
Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Antimony	2.0	ug/L	1.0	J	U	Yes	S2BVE
Arsenic	53.0	ug/L	10.0	D		Yes	S2BVE
Barium	348	ug/L	10.0	D		Yes	S2BVE
Beryllium	1.0	ug/L	1.0	U	U	Yes	S2BVE
Cadmium	1.6	ug/L	1.0			Yes	S2BVE
Chromium	3.5	ug/L	1.0			Yes	S2BVE
Cobalt	1.9	ug/L	1.0			Yes	S2BVE
Copper	87.7	ug/L	1.0			Yes	S2BVE
Lead	58.8	ug/L	10.0	D		Yes	S2BVE
Manganese	4640	ug/L	100.0	D		Yes	S2BVE
Nickel	10.5	ug/L	1.0			Yes	S2BVE
Selenium	277	ug/L	10.0	D		Yes	S2BVE
Silver	1.0	ug/L	1.0	U	U	Yes	S2BVE
Thallium	1.0	ug/L	1.0	J	U	Yes	S2BVE
Vanadium	2.0	ug/L	1.0	J	J	Yes	S2BVE
Zinc	90.1	ug/L	1.0		J+	Yes	S2BVE

Case No: 40949	Contract: EPW09044	SDG No: ME52Z1	Lab Code: STLV
Number: ME5320	Method: ICP_MS	Matrix: Water	MA Number: DEFAULT
Sample Location: GW-3	pH: 12.0	Sample Date: 01122011	Sample Time: 12:50.00
% Moisture :	% Solids :		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Antimony	20.0	ug/L	10.0	JD	U	Yes	S2BVE
Arsenic	15.4	ug/L	1.0		J	Yes	S2BVE
Barium	896	ug/L	10.0	D		Yes	S2BVE
Beryllium	70.3	ug/L	10.0	D		Yes	S2BVE
Cadmium	538	ug/L	100.0	D		Yes	S2BVE
Chromium	1340	ug/L	100.0	D		Yes	S2BVE
Cobalt	524	ug/L	10.0	D		Yes	S2BVE
Copper	36900	ug/L	1000.0	D		Yes	S2BVE
Lead	15100	ug/L	1000.0	D		Yes	S2BVE
Manganese	25200	ug/L	1000.0	D		Yes	S2BVE
Nickel	5560	ug/L	100.0	D		Yes	S2BVE
Selenium	242	ug/L	100.0	JD	J-	Yes	S2BVE
Silver	36.6	ug/L	100.0	JD	J-	Yes	S2BVE
Thallium	10.0	ug/L	10.0	D	U	Yes	S2BVE
Vanadium	639	ug/L	10.0	D		Yes	S2BVE
Zinc	67100	ug/L	1000.0	D	J+	Yes	S2BVE



Case No: 40949	Contract: EPW09044	SDG No: ME52Z1	Lab Code: STLV
Sample Number: ME5320	Method: Hg	Matrix: Water	MA Number: DEFAULT
Sample Location: GW-3	pH: 12.0	Sample Date: 01122011	Sample Time: 12:50.00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	5.8	ug/L	1.0			Yes	S2BVE

No:	40949	Contract:	EPW09044	SDG No:	ME52Z1	Lab Code:	STLV
Sample Number:	ME5320	Method:	CN	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	GW-3	pH:	12.0	Sample Date:	01122011	Sample Time:	12:50:00
Moisture:		% Solids:					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	1.7	ug/L	1.0	J	J	Yes	S2BVE

EXES ISM01.2 Data Qualifier Sheet

<u>Qualifiers</u>	<u>Data Qualifier Definitions</u>
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.
UJ	The analyte was analyzed for, but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.



Sample Summary Report

Case No: 40949	Contract: EPW05026	SDG No: E52Z1	Lab Code: DATAC
Sample Number: E52Z1	Method: BNA	Matrix: Water	MA Number: DEFAULT
Sample Location: GW-1	pH: 6.0	Sample Date: 01122011	Sample Time: 09:15 00
% Moisture :	% Solids :		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
1,1'-Biphenyl	5.0	ug/L	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Benzenedicarboxylic acid, dinonyl ester			1.0	JN		Yes	
2,2'-Oxybis(1-chloropropane)	5.0	ug/L	1.0	U	U	Yes	
2,3,4,6-Tetrachlorophenol	5.0	ug/L	1.0	U	U	Yes	
2,4,5-Trichlorophenol	5.0	ug/L	1.0	U	U	Yes	
2,4,6-Trichlorophenol	5.0	ug/L	1.0	U	U	Yes	
2,4-Dichlorophenol	5.0	ug/L	1.0	U	U	Yes	
2,4-Dimethylphenol	5.0	ug/L	1.0	U	U	Yes	
2,4-Dinitrophenol	10	ug/L	1.0	U	U	Yes	
2,4-Dinitrotoluene	5.0	ug/L	1.0	U	U	Yes	
2,6-Dinitrotoluene	5.0	ug/L	1.0	U	U	Yes	
2-Chloronaphthalene	5.0	ug/L	1.0	U	U	Yes	
2-Chlorophenol	5.0	ug/L	1.0	U	U	Yes	
2-Methylnaphthalene	5.0	ug/L	1.0	U	U	Yes	
2-Methylphenol	5.0	ug/L	1.0	U	U	Yes	
2-Nitroaniline	10	ug/L	1.0	U	U	Yes	
2-Nitrophenol	5.0	ug/L	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	5.0	ug/L	1.0	U	U	Yes	
3-Nitroaniline	10	ug/L	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	U	Yes	
4-Bromophenylphenylether	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
4-Chloro-3-methylphenol	5.0	ug/L	1.0	U	U	Yes	
4-Chloroaniline	5.0	ug/L	1.0	U	U	Yes	
4-Chlorophenylphenylether	5.0	ug/L	1.0	U	U	Yes	
4-Methylphenol	5.0	ug/L	1.0	U	U	Yes	
4-Nitroaniline	10	ug/L	1.0	U	U	Yes	
4-Nitrophenol	10	ug/L	1.0	U	U	Yes	
Acenaphthene	5.0	ug/L	1.0	U	U	Yes	
Acenaphthylene	5.0	ug/L	1.0	U	U	Yes	
Acetophenone	5.0	ug/L	1.0	JB	U	Yes	
Anthracene	5.0	ug/L	1.0	U	U	Yes	
Atrazine	5.0	ug/L	1.0	U	U	Yes	
Benzaldehyde	5.0	ug/L	1.0	JB	U	Yes	
Benzo(a)anthracene	5.0	ug/L	1.0	U	U	Yes	
Benzo(a)pyrene	5.0	ug/L	1.0	U	U	Yes	
Benzo(b)fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Benzo(g,h,i)perylene	5.0	ug/L	1.0	JB	U	Yes	
Benzo(k)fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Benzo[c]thiophene-1(3H)-one, 3-(3-oxobenzo[c]thio			1.0	JN	U	Yes	
Bis(2-chloroethoxy)methane	5.0	ug/L	1.0	U	U	Yes	
Bis(2-chloroethyl)ether	5.0	ug/L	1.0	U	U	Yes	
Bis(2-ethylhexyl)phthalate	25	ug/L	1.0	JB	U	Yes	
Butylbenzylphthalate	5.0	ug/L	1.0	U	U	Yes	
Caprolactam	5.0	ug/L	1.0	U	U	Yes	
Carbazole	5.0	ug/L	1.0	U	U	Yes	
Chrysene	5.0	ug/L	1.0	U	U	Yes	
Di-n-butylphthalate	5.0	ug/L	1.0	JB	U	Yes	
Di-n-octylphthalate	5.0	ug/L	1.0	U	U	Yes	
Dibenzo(a,h)anthracene	5.0	ug/L	1.0	JB	U	Yes	
Dibenzofuran	5.0	ug/L	1.0	U	U	Yes	
Diethylphthalate	5.0	ug/L	1.0	J	U	Yes	
Dimethylphthalate	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Fluorene	5.0	ug/L	1.0	U	U	Yes	
Hexachlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Hexachlorobutadiene	5.0	ug/L	1.0	U	U	Yes	
Hexachlorocyclopentadiene	5.0	ug/L	1.0	U	U	Yes	
Hexachloroethane	5.0	ug/L	1.0	U	U	Yes	
Indeno(1,2,3-cd)pyrene	5.0	ug/L	1.0	U	U	Yes	
Isophorone	5.0	ug/L	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	5.0	ug/L	1.0	U	U	Yes	
N-Nitrosodiphenylamine	5.0	ug/L	1.0	U	U	Yes	
Naphthalene	5.0	ug/L	1.0	U	U	Yes	
Nitrobenzene	5.0	ug/L	1.0	U	U	Yes	
Pentachlorophenol	10	ug/L	1.0	U	U	Yes	
Phenanthrene	5.0	ug/L	1.0	U	U	Yes	
Phenol	5.0	ug/L	1.0	J	U	Yes	
Phthalic acid, 2-(2-methoxyethyl)he			1.0	JN		Yes	
Phthalic acid, 5-methoxy-3-methylpent-2-yl nonyl			1.0	JN		Yes	
Phthalic acid, bis(7-methyloctyl)			1.0	JN		Yes	
Phthalic acid, bis(7-methyloctyl)			1.0	JN		Yes	
Phthalic acid, bis(7-methyloctyl)			1.0	JN		Yes	
Phthalic acid, bis(7-methyloctyl)			1.0	JN		Yes	
Phthalic acid, bis(7-methyloctyl)			1.0	JN		Yes	
Phthalic acid, bis(7-methyloctyl)			1.0	JN		Yes	
Phthalic acid, bis(7-methyloctyl)			1.0	JN		Yes	
Phthalic acid, bis(7-methyloctyl)			1.0	JN		Yes	
Phthalic acid, bis(7-methyloctyl)			1.0	JN		Yes	
Phthalic acid, bis(7-methyloctyl)			1.0	JN		Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ester			1.0	JN		Yes	
Phthalic acid, bis(7-methyloctyl)			1.0	JN		Yes	
Phthalic acid, bis(7-methyloctyl)			1.0	JN		Yes	
Phthalic acid, bis(7-methyloctyl)			1.0	JN		Yes	
Phthalic acid, bis(7-methyloctyl)			1.0	JN		Yes	
Phthalic acid, bis(7-methyloctyl)			1.0	JN		Yes	
Phthalic acid, bis(7-methyloctyl)			1.0	JN		Yes	
Phthalic acid, bis(7-methyloctyl)			1.0	JN		Yes	
Phthalic acid, bis(7-methyloctyl)			1.0	JN		Yes	
Phthalic acid, isohexyl tetradecyl ester			1.0	JN		Yes	
Picolinyl 8-(5-hexyl-2-furyl)-octanoate			1.0	JN	U	Yes	
Pyrene	5.0	ug/L	1.0	U	U	Yes	

Sample No: 40949	Contract: EPW05026	SDG No: E52Z1	Lab Code: DATAC
Sample Number: E52Z1	Method: VOA_Low_Med	Matrix: Water	MA Number: DEFAULT
Sample Location: GW-1	pH: 10	Sample Date: 01122011	Sample Time: 09:15:00
% Moisture :	% Solids :		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
1,1,1-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	
2-Butanone	10	ug/L	1.0	U	U	Yes	
2-Hexanone	10	ug/L	1.0	U	U	Yes	
4-Methyl-2-Pentanone	10	ug/L	1.0	U	U	Yes	
Acetone	20	ug/L	1.0	J	U	Yes	
Benzene	5.0	ug/L	1.0	U	U	Yes	
Bromochloromethane	5.0	ug/L	1.0	U	U	Yes	
Bromodichloromethane	5.0	ug/L	1.0	U	U	Yes	
Bromoform	5.0	ug/L	1.0	U	UJ	Yes	
Bromomethane	5.0	ug/L	1.0	U	U	Yes	
Carbon disulfide	1.2	ug/L	1.0	J	J	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Carbon tetrachloride	5.0	ug/L	1.0	U	U	Yes	
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Chloroethane	5.0	ug/L	1.0	U	U	Yes	
Chloroform	5.0	ug/L	1.0	U	U	Yes	
Chloromethane	5.0	ug/L	1.0	U	U	Yes	
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	
Dichlorodifluoromethane	5.0	ug/L	1.0	U	U	Yes	
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	
Methyl acetate	5.0	ug/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/L	1.0	U	U	Yes	
Methylcyclohexane	5.0	ug/L	1.0	U	U	Yes	
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	
Styrene	5.0	ug/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	
Toluene	5.0	ug/L	1.0	J	U	Yes	
Trichloroethene	5.0	ug/L	1.0	U	U	Yes	
Trichlorofluoromethane	5.0	ug/L	1.0	U	U	Yes	
Vinyl chloride	5.0	ug/L	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	
o-Xylene	5.0	ug/L	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	

Sample ID:	40949	Contract:	EPW05026	SDG No.:	E52Z1	Lab Code:	DATA C
Sample Number:	E52Z2	Method:	BNA	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	GW-2	pH:	6.0	Sample Date:	01122011	Sample Time:	11:15.00
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
1,1'-Biphenyl			1.0	JN		Yes	
1,1'-Biphenyl	5.0	ug/L	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1-Hexanol, 6-mercapto-			1.0	JN		Yes	
16-Hexadecanoyl hydrazide			1.0	JN		Yes	
2,2'-Oxybis(1-chloropropane)	5.0	ug/L	1.0	U	U	Yes	
2,3,4,6-Tetrachlorophenol	5.0	ug/L	1.0	U	U	Yes	
2,4,5-Trichlorophenol	5.0	ug/L	1.0	U	U	Yes	
2,4,6-Trichlorophenol	5.0	ug/L	1.0	U	U	Yes	
2,4-Dichlorophenol	5.0	ug/L	1.0	U	U	Yes	
2,4-Dimethylphenol	5.0	ug/L	1.0	U	U	Yes	
2,4-Dinitrophenol	10	ug/L	1.0	U	U	Yes	
2,4-Dinitrotoluene	5.0	ug/L	1.0	U	U	Yes	
2,6-Dinitrotoluene	5.0	ug/L	1.0	U	U	Yes	
2-Chloronaphthalene	5.0	ug/L	1.0	U	U	Yes	
2-Chlorophenol	5.0	ug/L	1.0	U	U	Yes	
2-Methylnaphthalene	5.0	ug/L	1.0	U	U	Yes	
2-Methylphenol	5.0	ug/L	1.0	U	U	Yes	
2-Nitroaniline	10	ug/L	1.0	U	U	Yes	
2-Nitrophenol	5.0	ug/L	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	5.0	ug/L	1.0	U	U	Yes	
3-Nitroaniline	10	ug/L	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	U	Yes	
4-Bromophenylphenylether	5.0	ug/L	1.0	U	U	Yes	
4-Chloro-3-methylphenol	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
4-Chloroaniline	5.0	ug/L	1.0	U	U	Yes	
4-Chlorophenylphenylether	5.0	ug/L	1.0	U	U	Yes	
4-Methylphenol	5.0	ug/L	1.0	U	U	Yes	
4-Nitroaniline	10	ug/L	1.0	U	U	Yes	
4-Nitrophenol	10	ug/L	1.0	U	U	Yes	
Acenaphthene	5.0	ug/L	1.0	U	U	Yes	
Acenaphthylene	5.0	ug/L	1.0	U	U	Yes	
Acetophenone	5.0	ug/L	1.0	JB	U	Yes	
Anthracene	5.0	ug/L	1.0	U	U	Yes	
Atrazine	5.0	ug/L	1.0	U	U	Yes	
Benzaldehyde	5.0	ug/L	1.0	JB	U	Yes	
Benzo(a)anthracene	5.0	ug/L	1.0	U	U	Yes	
Benzo(a)pyrene	5.0	ug/L	1.0	U	U	Yes	
Benzo(b)fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Benzo(g,h,i)perylene	5.0	ug/L	1.0	JB	U	Yes	
Benzo(k)fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Benzo[c]thiophen-1(3H)-one, 3-(3-oxobenzofuran-2-ylidene)-			1.0	JN	U	Yes	
Bis(2-chloroethoxy)methane	5.0	ug/L	1.0	U	U	Yes	
Bis(2-chloroethyl)ether	5.0	ug/L	1.0	U	U	Yes	
Bis(2-ethylhexyl)phthalate	25	ug/L	1.0	JB	U	Yes	
Butylbenzylphthalate	5.0	ug/L	1.0	U	U	Yes	
Caprolactam	5.0	ug/L	1.0	U	U	Yes	
Carbazole	5.0	ug/L	1.0	U	U	Yes	
Chrysene	5.0	ug/L	1.0	U	U	Yes	
Di-n-butylphthalate	5.0	ug/L	1.0	JB	U	Yes	
Di-n-octylphthalate	5.0	ug/L	1.0	U	U	Yes	
Dibenzo(a,h)anthracene	5.0	ug/L	1.0	U	U	Yes	
Dibenzofuran	5.0	ug/L	1.0	U	U	Yes	
Diethylphthalate	5.0	ug/L	1.0	J	U	Yes	
Dimethylphthalate	5.0	ug/L	1.0	U	U	Yes	
Ethanol, 2-[(2-ethylhexyl)oxy]-			1.0	JN		Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Fluorene	5.0	ug/L	1.0	U	U	Yes	
Hexachlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Hexachlorobutadiene	5.0	ug/L	1.0	U	U	Yes	
Hexachlorocyclopentadiene	5.0	ug/L	1.0	U	U	Yes	
Hexachloroethane	5.0	ug/L	1.0	U	U	Yes	
Indeno(1,2,3-cd)pyrene	5.0	ug/L	1.0	U	U	Yes	
Isophorone	5.0	ug/L	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	5.0	ug/L	1.0	U	U	Yes	
N-Nitrosodiphenylamine	5.0	ug/L	1.0	U	U	Yes	
Naphthalene	5.0	ug/L	1.0	U	U	Yes	
Nitrobenzene	5.0	ug/L	1.0	U	U	Yes	
Pentachlorophenol	10	ug/L	1.0	U	U	Yes	
Phenanthrene	5.0	ug/L	1.0	U	U	Yes	
Phenol	5.0	ug/L	1.0	J	U	Yes	
Phthalic anhydride			1.0	JN	U	Yes	
Pyrene	5.0	ug/L	1.0	U	U	Yes	

No: 40949	Contract: EPW05026	SDG No: E52Z1	Lab Code: DATAC
Sample Number: E52Z2	Method: VOA_Low_Med	Matrix: Water	MA Number: DEFAULT
Sample Location: GW-2	pH: 1.0	Sample Date: 01122011	Sample Time: 11:15:00
Moisture :	% Solids :		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
1,1,1-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	
2-Butanone	10	ug/L	1.0	U	U	Yes	
2-Hexanone	10	ug/L	1.0	U	U	Yes	
4-Methyl-2-Pentanone	10	ug/L	1.0	U	U	Yes	
Acetone	20	ug/L	1.0	J	U	Yes	
Benzene	5.0	ug/L	1.0	U	U	Yes	
Bromochloromethane	5.0	ug/L	1.0	U	U	Yes	
Bromodichloromethane	5.0	ug/L	1.0	U	U	Yes	
Bromoform	5.0	ug/L	1.0	U	U	Yes	
Bromomethane	5.0	ug/L	1.0	U	U	Yes	
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Carbon tetrachloride	5.0	ug/L	1.0	U	U	Yes	
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Chloroethane	5.0	ug/L	1.0	U	U	Yes	
Chloroform	5.0	ug/L	1.0	U	U	Yes	
Chloromethane	5.0	ug/L	1.0	U	U	Yes	
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	
Dichlorodifluoromethane	5.0	ug/L	1.0	U	U	Yes	
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	
Methyl acetate	5.0	ug/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/L	1.0	U	U	Yes	
Methylcyclohexane	5.0	ug/L	1.0	U	U	Yes	
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	
Styrene	5.0	ug/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	
Toluene	5.0	ug/L	1.0	J	U	Yes	
Trichloroethene	5.0	ug/L	1.0	U	U	Yes	
Trichlorofluoromethane	5.0	ug/L	1.0	U	U	Yes	
Vinyl chloride	5.0	ug/L	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	
o-Xylene	5.0	ug/L	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	



Sample No: 40949	Contract: EPW05026	SDG No: E52Z1	Lab Code: DATA
Sample Number: E5302	Method: VOA_Low_Med	Matrix: Water	MA Number: DEFAULT
Sample Location: CW-2	pH: 1.0	Sample Date: 01122011	Sample Time: 11.07.00
% Moisture :	% Solids :		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
1,1,1-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	
2-Butanone	10	ug/L	1.0	U	U	Yes	
2-Hexanone	10	ug/L	1.0	U	U	Yes	
4-Methyl-2-Pentanone	10	ug/L	1.0	U	U	Yes	
Acetone	20	ug/L	1.0	J	U	Yes	
Benzene	5.0	ug/L	1.0	U	U	Yes	
Bromochloromethane	5.0	ug/L	1.0	U	U	Yes	
Bromodichloromethane	5.0	ug/L	1.0	U	U	Yes	
Bromoform	5.0	ug/L	1.0	U	U	Yes	
Bromomethane	5.0	ug/L	1.0	U	U	Yes	
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	



Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Carbon tetrachloride	5.0	ug/L	1.0	U	U	Yes	
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Chloroethane	5.0	ug/L	1.0	U	U	Yes	
Chloroform	5.0	ug/L	1.0	U	U	Yes	
Chloromethane	5.0	ug/L	1.0	U	U	Yes	
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	
Dichlorodifluoromethane	5.0	ug/L	1.0	U	U	Yes	
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	
Methyl acetate	5.0	ug/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/L	1.0	U	U	Yes	
Methylcyclohexane	5.0	ug/L	1.0	U	U	Yes	
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	
Styrene	5.0	ug/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	
Toluene	5.0	ug/L	1.0	U	U	Yes	
Trichloroethene	5.0	ug/L	1.0	U	U	Yes	
Trichlorofluoroethane	5.0	ug/L	1.0	U	U	Yes	
Vinyl chloride	5.0	ug/L	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	
o-Xylene	5.0	ug/L	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	

No: 40949	Contract: EPW05026	SDG No: E52Z1	Lab Code: DATAC
Sample Number: E5302	Method: BNA	Matrix: Water	MA Number: DEFAULT
Sample Location: CW-2	pH: 6.0	Sample Date: 01122011	Sample Time: 11.07:00
Moisture :	% Solids :		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
1,1'-Biphenyl	5.0	ug/L	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	5.0	ug/L	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	5.0	ug/L	1.0	U	U	Yes	
2,3,4,6-Tetrachlorophenol	5.0	ug/L	1.0	U	U	Yes	
2,4,5-Trichlorophenol	5.0	ug/L	1.0	U	U	Yes	
2,4,6-Trichlorophenol	5.0	ug/L	1.0	U	U	Yes	
2,4-Dichlorophenol	5.0	ug/L	1.0	U	U	Yes	
2,4-Dimethylphenol	5.0	ug/L	1.0	U	U	Yes	
2,4-Dinitrophenol	10	ug/L	1.0	U	U	Yes	
2,4-Dinitrotoluene	5.0	ug/L	1.0	U	U	Yes	
2,6-Dinitrotoluene	5.0	ug/L	1.0	U	U	Yes	
2-Chloronaphthalene	5.0	ug/L	1.0	U	U	Yes	
2-Chlorophenol	5.0	ug/L	1.0	U	U	Yes	
2-Methylnaphthalene	5.0	ug/L	1.0	U	U	Yes	
2-Methylphenol	5.0	ug/L	1.0	U	U	Yes	
2-Nitroaniline	10	ug/L	1.0	U	U	Yes	
2-Nitrophenol	5.0	ug/L	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	5.0	ug/L	1.0	U	U	Yes	
3-Nitroaniline	10	ug/L	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	U	Yes	
4-Bromophenylphenylether	5.0	ug/L	1.0	U	U	Yes	
4-Chloro-3-methylphenol	5.0	ug/L	1.0	U	U	Yes	
4-Chloroaniline	5.0	ug/L	1.0	U	U	Yes	
4-Chlorophenylphenylether	5.0	ug/L	1.0	U	U	Yes	
4-Methylphenol	5.0	ug/L	1.0	U	U	Yes	
4-Nitroaniline	10	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
4-Nitrophenol	10	ug/L	1.0	U	U	Yes	
Acenaphthene	5.0	ug/L	1.0	U	U	Yes	
Acenaphthylene	5.0	ug/L	1.0	U	U	Yes	
Acetophenone	5.0	ug/L	1.0	JB	U	Yes	
Anthracene	5.0	ug/L	1.0	U	U	Yes	
Atrazine	5.0	ug/L	1.0	U	U	Yes	
Benzaldehyde	5.0	ug/L	1.0	JB	U	Yes	
Benzo(a)anthracene	5.0	ug/L	1.0	U	U	Yes	
Benzo(a)pyrene	5.0	ug/L	1.0	U	U	Yes	
Benzo(b)fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Benzo(g,h,i)perylene	5.0	ug/L	1.0	U	U	Yes	
Benzo(k)fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	5.0	ug/L	1.0	U	U	Yes	
Bis(2-chloroethyl)ether	5.0	ug/L	1.0	U	U	Yes	
Bis(2-ethylhexyl)phthalate	25	ug/L	1.0	J	U	Yes	
Diethylbenzylphthalate	5.0	ug/L	1.0	U	U	Yes	
Caprolactam	5.0	ug/L	1.0	U	U	Yes	
Carbazole	5.0	ug/L	1.0	U	U	Yes	
Chrysene	5.0	ug/L	1.0	U	U	Yes	
Di-n-butylphthalate	5.0	ug/L	1.0	JB	U	Yes	
Di-n-octylphthalate	5.0	ug/L	1.0	U	U	Yes	
Dibenzo(a,h)anthracene	5.0	ug/L	1.0	U	U	Yes	
Dibenzofuran	5.0	ug/L	1.0	U	U	Yes	
Diethylphthalate	5.0	ug/L	1.0	U	U	Yes	
Dimethylphthalate	5.0	ug/L	1.0	U	U	Yes	
Fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Fluorene	5.0	ug/L	1.0	U	U	Yes	
Hexachlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Hexachlorobutadiene	5.0	ug/L	1.0	U	U	Yes	
Hexachlorocyclopentadiene	5.0	ug/L	1.0	U	U	Yes	
Hexachloroethane	5.0	ug/L	1.0	U	U	Yes	
Indeno(1,2,3-cd)pyrene	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Isophorone	5.0	ug/L	1.0	U	U	Yes	
N,N'-Bis(2-hydroxy-alpha-methylbenzylidene)ethyl			1.0	JN	U	Yes	
N-Nitroso-di-n-propylamine	5.0	ug/L	1.0	U	U	Yes	
N-Nitrosodiphenylamine	5.0	ug/L	1.0	U	U	Yes	
Naphthalene	5.0	ug/L	1.0	U	U	Yes	
Nitrobenzene	5.0	ug/L	1.0	U	U	Yes	
Pentachlorophenol	10	ug/L	1.0	U	U	Yes	
Phenanthrene	5.0	ug/L	1.0	U	U	Yes	
Phenol	5.0	ug/L	1.0	JB	U	Yes	
Pyrene	5.0	ug/L	1.0	U	U	Yes	

No: 40949	Contract: EPW05026	SDG No: E52Z1	Lab Code: DATAC
Sample Number: E5314	Method: VOA_Low_Med	Matrix: Water	MA Number: DEFAULT
Sample Location: GW-2-FD	pH: 10	Sample Date: 01122011	Sample Time: 11 15.00
% Moisture :	% Solids :		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
1,1,1-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	
2-Butanone	10	ug/L	1.0	U	U	Yes	
2-Hexanone	10	ug/L	1.0	U	U	Yes	
4-Methyl-2-Pentanone	10	ug/L	1.0	U	U	Yes	
Acetone	10	ug/L	1.0	U	U	Yes	
Benzene	5.0	ug/L	1.0	U	U	Yes	
Bromochloromethane	5.0	ug/L	1.0	U	U	Yes	
Bromodichloromethane	5.0	ug/L	1.0	U	U	Yes	
Bromoform	5.0	ug/L	1.0	U	U	Yes	
Bromomethane	5.0	ug/L	1.0	U	U	Yes	
Carbon disulfide	0.28	ug/L	1.0	J	J	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Carbon tetrachloride	5.0	ug/L	1.0	U	U	Yes	
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Chloroethane	5.0	ug/L	1.0	U	U	Yes	
Chloroform	5.0	ug/L	1.0	U	U	Yes	
Chloromethane	5.0	ug/L	1.0	U	U	Yes	
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	
Dichlorodifluoromethane	5.0	ug/L	1.0	U	U	Yes	
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	
Methyl acetate	5.0	ug/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/L	1.0	U	U	Yes	
Methylcyclohexane	5.0	ug/L	1.0	U	U	Yes	
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	
Styrene	5.0	ug/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	
Toluene	5.0	ug/L	1.0	J	U	Yes	
Trichloroethene	5.0	ug/L	1.0	U	U	Yes	
Trichlorofluoroethane	5.0	ug/L	1.0	U	U	Yes	
Vinyl chloride	5.0	ug/L	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	
o-Xylene	5.0	ug/L	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	

Sample No: 40949	Contract: EPW05026	SDG No: E52Z1	Lab Code: DATA C
Sample Number: E5314	Method: BNA	Matrix: Water	MA Number: DEFAULT
Sample Location: GW-2-FD	pH: 6.0	Sample Date: 01122011	Sample Time: 11.15.00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
.alpha.,.alpha.,.al pha.',.alpha.'- Tetramethyl-1,			1.0	JN		Yes	
1,1'-Biphenyl	5.0	ug/L	1.0	U	U	Yes	
1,1'- Methylenebis(3- methylpiperidine)			1.0	JN		Yes	
1,2,4,5- Tetrachlorobenze ne	5.0	ug/L	1.0	U	U	Yes	
1-Hexanol, 6- mercapto-			1.0	JN		Yes	
2,2'-Oxybis(1- chloropropane)	5.0	ug/L	1.0	U	U	Yes	
2,3,4,6- Tetrachlorophen ol	5.0	ug/L	1.0	U	U	Yes	
2,4,5- Trichlorophenol	5.0	ug/L	1.0	U	U	Yes	
2,4,6- chlorophenol	5.0	ug/L	1.0	U	U	Yes	
2,4- Dichlorophenol	5.0	ug/L	1.0	U	U	Yes	
2,4- Dimethylphenol	5.0	ug/L	1.0	U	U	Yes	
2,4- Dinitrophenol	10	ug/L	1.0	U	U	Yes	
2,4- Dinitrotoluene	5.0	ug/L	1.0	U	U	Yes	
2,6- Dinitrotoluene	5.0	ug/L	1.0	U	U	Yes	
2- Chloronaphthale ne	5.0	ug/L	1.0	U	U	Yes	
2-Chlorophenol	5.0	ug/L	1.0	U	U	Yes	
2- Methylnaphthale ne	5.0	ug/L	1.0	U	U	Yes	
2-Methylphenol	5.0	ug/L	1.0	U	U	Yes	
2-Nitroaniline	10	ug/L	1.0	U	U	Yes	
2-Nitrophenol	5.0	ug/L	1.0	U	U	Yes	
2-Thiazolamine, 4-(4- methoxyphenyl)- N-(4-methylp			1.0	JN	U	Yes	
3,3'- Dichlorobenzidin e	5.0	ug/L	1.0	U	U	Yes	
3-Nitroaniline	10	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	U	Yes	
4-Bromophenylphenylether	5.0	ug/L	1.0	U	U	Yes	
4-Chloro-3-methylphenol	5.0	ug/L	1.0	U	U	Yes	
4-Chloroaniline	5.0	ug/L	1.0	U	U	Yes	
4-Chlorophenylphenylether	5.0	ug/L	1.0	U	U	Yes	
4-Methylphenol	5.0	ug/L	1.0	U	U	Yes	
4-Nitroaniline	10	ug/L	1.0	U	U	Yes	
4-Nitrophenol	10	ug/L	1.0	U	U	Yes	
Acenaphthene	5.0	ug/L	1.0	U	U	Yes	
Acenaphthylene	5.0	ug/L	1.0	U	U	Yes	
Acetophenone	5.0	ug/L	1.0	JB	U	Yes	
Anthracene	5.0	ug/L	1.0	U	U	Yes	
Atrazine	5.0	ug/L	1.0	U	U	Yes	
Benzaldehyde	5.0	ug/L	1.0	JB	U	Yes	
Benzo(a)anthracene	5.0	ug/L	1.0	U	U	Yes	
Benzo(a)pyrene	5.0	ug/L	1.0	U	U	Yes	
Benzo(b)fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Benzo(g,h,i)perylene	5.0	ug/L	1.0	U	U	Yes	
Benzo(k)fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	5.0	ug/L	1.0	U	U	Yes	
Bis(2-chloroethyl)ether	5.0	ug/L	1.0	U	U	Yes	
Bis(2-ethylhexyl)phthalate	25	ug/L	1.0	JB	U	Yes	
Butylbenzylphthalate	5.0	ug/L	1.0	U	U	Yes	
Caprolactam	5.0	ug/L	1.0	U	U	Yes	
Carbazole	5.0	ug/L	1.0	U	U	Yes	
Chrysene	5.0	ug/L	1.0	U	U	Yes	
Di-n-butylphthalate	5.0	ug/L	1.0	JB	U	Yes	
Di-n-octylphthalate	5.0	ug/L	1.0	U	U	Yes	
Dibenzo(a,h)anthracene	5.0	ug/L	1.0	U	U	Yes	
Dibenzofuran	5.0	ug/L	1.0	U	U	Yes	
Diethylphthalate	5.0	ug/L	1.0	U	U	Yes	
Dimethylphthalate	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Fluorene	5.0	ug/L	1.0	U	U	Yes	
Hexachlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Hexachlorobutadiene	5.0	ug/L	1.0	U	U	Yes	
Hexachlorocyclopentadiene	5.0	ug/L	1.0	U	U	Yes	
Hexachloroethane	5.0	ug/L	1.0	U	U	Yes	
Indeno(1,2,3-cd)pyrene	5.0	ug/L	1.0	U	U	Yes	
Isophorone	5.0	ug/L	1.0	U	U	Yes	
Methyl octyl ether			1.0	JN		Yes	
N-Nitroso-di-n-propylamine	5.0	ug/L	1.0	U	U	Yes	
N-Nitrosodiphenylamine	5.0	ug/L	1.0	U	U	Yes	
Naphthalene	5.0	ug/L	1.0	U	U	Yes	
Nitrobenzene	5.0	ug/L	1.0	U	U	Yes	
Pentachlorophenol	10	ug/L	1.0	U	U	Yes	
Phenanthrene	5.0	ug/L	1.0	U	U	Yes	
Phenol	5.0	ug/L	1.0	J	U	Yes	
Phthalic anhydride			1.0	JN	U	Yes	
Pyrene	5.0	ug/L	1.0	U	U	Yes	



Contract: 40949	Contract: EPW05026	SDG No: E52Z1	Lab Code: DATAC
Sample Number: E5320	Method: VOA_Low_Med	Matrix: Water	MA Number: DEFAULT
Sample Location: GW-3	pH: 6.0	Sample Date: 01122011	Sample Time: 12:50.00
% Moisture :	% Solids .		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
1,1,1-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethane	62	ug/L	1.0			Yes	
1,1-Dichloroethane	19	ug/L	1.0			Yes	
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	JB	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	0.64	ug/L	1.0	J	J	Yes	
1,4-Dichlorobenzene	2.0	ug/L	1.0	J	J	Yes	
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	
2-Butanone	10	ug/L	1.0	U	U	Yes	
2-Hexanone	10	ug/L	1.0	U	U	Yes	
4-Methyl-2-Pentanone	10	ug/L	1.0	U	U	Yes	
Acetone	20	ug/L	1.0	J	U	Yes	
Benzene	1.0	ug/L	1.0	J	J	Yes	
Bromochloromethane	5.0	ug/L	1.0	U	U	Yes	
Bromodichloromethane	5.0	ug/L	1.0	U	U	Yes	
Bromoform	5.0	ug/L	1.0	U	U	Yes	
Bromomethane	5.0	ug/L	1.0	U	U	Yes	
Carbon disulfide	0.43	ug/L	1.0	J	J	Yes	



Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Carbon tetrachloride	5.0	ug/L	1.0	U	U	Yes	
Chlorobenzene	0.61	ug/L	1.0	J	J	Yes	
Chloroethane	5.0	ug/L	1.0	U	U	Yes	
Chloroform	5.0	ug/L	1.0	U	U	Yes	
Chloromethane	5.0	ug/L	1.0	U	U	Yes	
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	
Dichlorodifluoromethane	5.0	ug/L	1.0	U	U	Yes	
Ethylbenzene	0.35	ug/L	1.0	J	J	Yes	
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	
Methyl acetate	5.0	ug/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/L	1.0	U	U	Yes	
Methylcyclohexane	5.0	ug/L	1.0	U	U	Yes	
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	
Styrene	5.0	ug/L	1.0	U	U	Yes	
Tetrachloroethene	2.8	ug/L	1.0	J	J	Yes	
Toluene	5.0	ug/L	1.0	J	U	Yes	
Trichloroethene	5.0	ug/L	1.0			Yes	
Trichlorofluoromethane	5.0	ug/L	1.0	U	U	Yes	
Vinyl chloride	0.83	ug/L	1.0	J	J	Yes	
cis-1,2-Dichloroethene	9.4	ug/L	1.0			Yes	
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
m,p-Xylene	0.44	ug/L	1.0	J	J	Yes	
o-Xylene	5.0	ug/L	1.0	U	U	Yes	
trans-1,2-Dichloroethene	0.70	ug/L	1.0	J	J	Yes	
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	

No: 40949	Contract: EPW05026	SDG No: E5221	Lab Code: DATAC
Sample Number: E5320	Method: BNA	Matrix: Water	MA Number: DEFAULT
Sample Location: GW-3	pH: 6.0	Sample Date: 01122011	Sample Time: 12:50.00
Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
1,1'-Biphenyl	5.3	ug/L	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	0.17	ug/L	1.0	J	J	Yes	
2,2'-Oxybis(1-chloropropane)	5.3	ug/L	1.0	U	U	Yes	
2,3,4,6-Tetrachlorophenol	5.3	ug/L	1.0	U	U	Yes	
2,4,5-Trichlorophenol	5.3	ug/L	1.0	U	U	Yes	
2,4,6-Trichlorophenol	5.3	ug/L	1.0	U	U	Yes	
2,4-Dichlorophenol	5.3	ug/L	1.0	U	U	Yes	
2,4-Dimethylphenol	5.3	ug/L	1.0	U	U	Yes	
2,4-Dinitrophenol	11	ug/L	1.0	U	U	Yes	
2,4-Dinitrotoluene	5.3	ug/L	1.0	U	U	Yes	
2,6-Dinitrotoluene	5.3	ug/L	1.0	U	U	Yes	
2-Chloronaphthalene	5.3	ug/L	1.0	U	U	Yes	
2-Chlorophenol	5.3	ug/L	1.0	U	U	Yes	
2-Methylnaphthalene	5.3	ug/L	1.0	U	U	Yes	
2-Methylphenol	5.3	ug/L	1.0	U	U	Yes	
2-Nitroaniline	11	ug/L	1.0	U	U	Yes	
2-Nitrophenol	5.3	ug/L	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	5.3	ug/L	1.0	U	U	Yes	
3-Nitroaniline	11	ug/L	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	11	ug/L	1.0	U	U	Yes	
4-Bromophenylether	5.3	ug/L	1.0	U	U	Yes	
4-Chloro-3-methylphenol	5.3	ug/L	1.0	U	U	Yes	
4-Chloroaniline	5.3	ug/L	1.0	U	U	Yes	
4-Chlorophenylether	5.3	ug/L	1.0	U	U	Yes	
4-Methylphenol	5.3	ug/L	1.0	U	U	Yes	
4-Nitroaniline	11	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
4-Nitrophenol	11	ug/L	1.0	U	U	Yes	
Acenaphthene	5.3	ug/L	1.0	U	U	Yes	
Acenaphthylene	5.3	ug/L	1.0	U	U	Yes	
Acetophenone	5.3	ug/L	1.0	JB	U	Yes	
Anthracene	5.3	ug/L	1.0	U	U	Yes	
Atrazine	5.3	ug/L	1.0	U	U	Yes	
Benzaldehyde	5.3	ug/L	1.0	JB	U	Yes	
Benzo(a)anthracene	5.3	ug/L	1.0	U	U	Yes	
Benzo(a)pyrene	5.3	ug/L	1.0	U	U	Yes	
Benzo(b)fluoranthene	5.3	ug/L	1.0	U	U	Yes	
Benzo(g,h,i)perylene	5.3	ug/L	1.0	U	U	Yes	
Benzo(k)fluoranthene	5.3	ug/L	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	5.3	ug/L	1.0	U	U	Yes	
Bis(2-chloroethyl)ether	5.3	ug/L	1.0	U	U	Yes	
Bis(2-ethylhexyl)phthalate	27	ug/L	1.0	JB	U	Yes	
Butylbenzylphthalate	5.3	ug/L	1.0	U	U	Yes	
Caprolactam	5.3	ug/L	1.0	U	U	Yes	
Carbazole	5.3	ug/L	1.0	U	U	Yes	
Chrysene	5.3	ug/L	1.0	U	U	Yes	
Di-n-butylphthalate	5.3	ug/L	1.0	JB	U	Yes	
Di-n-octylphthalate	5.3	ug/L	1.0	U	U	Yes	
Dibenzo(a,h)anthracene	5.3	ug/L	1.0	U	U	Yes	
Dibenzofuran	5.3	ug/L	1.0	U	U	Yes	
Diethylphthalate	5.3	ug/L	1.0	J	U	Yes	
Dimethylphthalate	5.3	ug/L	1.0	U	U	Yes	
Fluoranthene	5.3	ug/L	1.0	U	U	Yes	
Fluorene	5.3	ug/L	1.0	U	U	Yes	
Hexachlorobenzene	5.3	ug/L	1.0	U	U	Yes	
Hexachlorobutadiene	5.3	ug/L	1.0	U	U	Yes	
Hexachlorocyclopentadiene	5.3	ug/L	1.0	U	U	Yes	
Hexachloroethane	5.3	ug/L	1.0	U	U	Yes	
Indeno(1,2,3-cd)pyrene	5.3	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Isophorone	5.3	ug/L	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	5.3	ug/L	1.0	U	U	Yes	
N-Nitrosodiphenylamine	5.3	ug/L	1.0	U	U	Yes	
Naphthalene	5.3	ug/L	1.0	U	U	Yes	
Nitrobenzene	5.3	ug/L	1.0	U	U	Yes	
Pentachlorophenol	11	ug/L	1.0	U	U	Yes	
Phenanthrene	5.3	ug/L	1.0	U	U	Yes	
Phenol	5.3	ug/L	1.0	J	U	Yes	
Phthalic acid, monoethyl ester			1.0	JN	U	Yes	
Phthalic anhydride			1.0	JN	U	Yes	
Pyrene	5.3	ug/L	1.0	U	U	Yes	

Case Number: 40949
Site Name: Chemetco (IL)

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SDG Number: E52Z1
Laboratory: ALS Laboratory Group

CADRE Data Qualifier Sheet

Qualifiers

Data Qualifier Definitions

- | | |
|----|---|
| U | The analyte was analyzed for, but was not detected above the reported sample quantitation limit. |
| J | The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample. |
| UJ | The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample. |
| N | The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification. |
| NJ | The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration. |
| R | The data are unusable. (The compound may or may not be present.) |



Bcc: Tom Martin

